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JossC

Aug 05, 2021 - 9:40am

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REVISIONS	
REV	DATE
DRAWN BY: CHECKED BY: APPROVED BY:	
WORK ORDER #:	
DESCRIPTION	
SPECIFICATION NUMBER: _____	
APPROVED FOR ADVERTISING	
LIZ ALZEER	
DEPARTMENT OF FINANCE & ADMINISTRATIVE SERVICES	
SEATTLE, WASHINGTON _____ 20____	
BY: _____	
CITY PURCHASING & CONTRACTING SERVICES DIRECTOR	



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**Seattle City Light**  
Streetlight Engineering

APPROVED FOR SEATTLE CITY LIGHT

PROJECT ENGINEER	SHEET CONTENTS
QUARTERSECTION NUMBER(S)	SECTION / TOWNSHIP / RANGE

PROJECT TYPE	STREETLIGHT CIP
PROJECT NAME	STREETLIGHT SYSTEM UPGRADE
PROJECT ADDRESS	2ND AVE. & WASHINGTON ST. 2ND AVE EXT S PLAN AND PROFILE

SHEET	
6	OF 21
WORK ORDER NO.-TASK	
CITY	
SEATTLE	
DRAWING NO.	REV. NO.
C-06	0

## NOTES

- REFER TO SHEET 1 FOR CONSTRUCTION BASELINE LAYOUT.
- ALL STREET LIGHT CONDUIT AND HANDHOLES SHALL CONFORM TO SEATTLE CITY LIGHT CONSTRUCTION STANDARD 1716.07 UNLESS NOTED OTHERWISE.
- SAWCUT PAVEMENT TO THE NEAREST JOINT AND MATCH EXISTING GRADES. COORDINATE WITH THE CITY INSPECTOR FOR PAVEMENT REPLACEMENT LIMITS.
- PROTECT IN PLACE ALL EXISTING ADA RAMPS. IF RAMPS ARE DISTURBED, REPLACE PER CITY OF SEATTLE STANDARD PLAN 422A.
- PROTECT ALL EXISTING UTILITIES UNLESS NOTED OTHERWISE.
- USE EXTREME CARE WHEN WORKING ADJACENT TO AREAWAY. CONTACT ENGINEER OF RECORD IMMEDIATELY IF AREAWAY EXTENTS DIFFER FROM THAT SHOWN ON THE SURVEY.
- CONCRETE PAVEMENT RESTORATION SHALL BE TYPE 402A PER COS STD PLAN 402 AND SECTION 9.2 OF THE RIGHT-OF-WAY OPENING AND RESTORATION RULE (DR 01-2017). PROVIDE 12" CLASS 6.5 PCC, OR MATCH EXISTING DEPTH IF GREATER, OVER 6" TYPE 2 MINERAL AGGREGATE.
- MAINTAIN MINIMUM 2' HORIZONTAL CLEARANCE BETWEEN PROPOSED HANDHOLES/CONDUIT AND EXISTING PIPING/INLET STRUCTURES.
- FOR ACCEPTABLE CLEARANCES FROM SCL, PLEASE SEE SCL CONSTRUCTION STANDARD 0214.00. LOCATIONS, DIMENSIONS AND DEPTHS OF SCL'S VAULTS, MANHOLES, HAND HOLES AND DUCT BANKS WITHIN THE PLANS AFFECTING AREAS MUST BE VERIFIED (E.G. POTHOLE) PRIOR TO CONSTRUCTION TO AVOID ANY DAMAGES TO EXISTING SCL FACILITIES.
- PROPOSED HANDHOLES AND CONDUIT MUST MAINTAIN MINIMUM 3' HORIZONTAL CLEARANCE FROM FIRE HYDRANT.
- TREE PIT OUTER DIMENSIONS ARE 9'X 5.5' AND SHALL BE INSTALLED PER CITY OF SEATTLE STANDARD PLAN 424B

## LEGEND

- PROPERTY LINE
- RIGHT OF WAY LINE
- ELECTRICAL/SIGNAL CONDUIT
- SAWCUT LINE/EDGE OF PAVING
- SIGNAL PEDESTAL (SEE SIGNAL PLANS)
- STREET LIGHT (SEE ELECTRICAL PLANS)
- SCL ELECTRICAL HANDHOLE COS STD PLAN 550A
- SCL 444 ELECTRICAL VAULT SCL STD 7203.26
- SDOT SIGNAL HANDHOLE (SEE SIGNAL PLANS)
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0 5 10 20  
1 inch = 10 feet

MATCHLINE: SEE DWG C-04

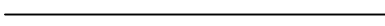
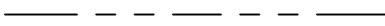

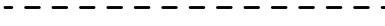
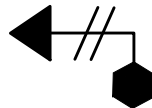




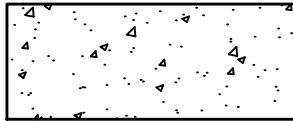
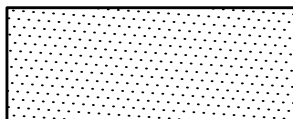
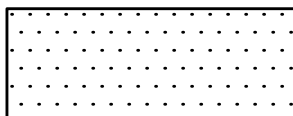
MATCHLINE: SEE DWG C-05



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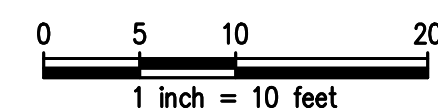
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	SAWCUT LINE/EDGE OF PAVING
	SIGNAL PEDESTAL (SEE SIGNAL PLANS)
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## DEMOLITION FLAG NOTES

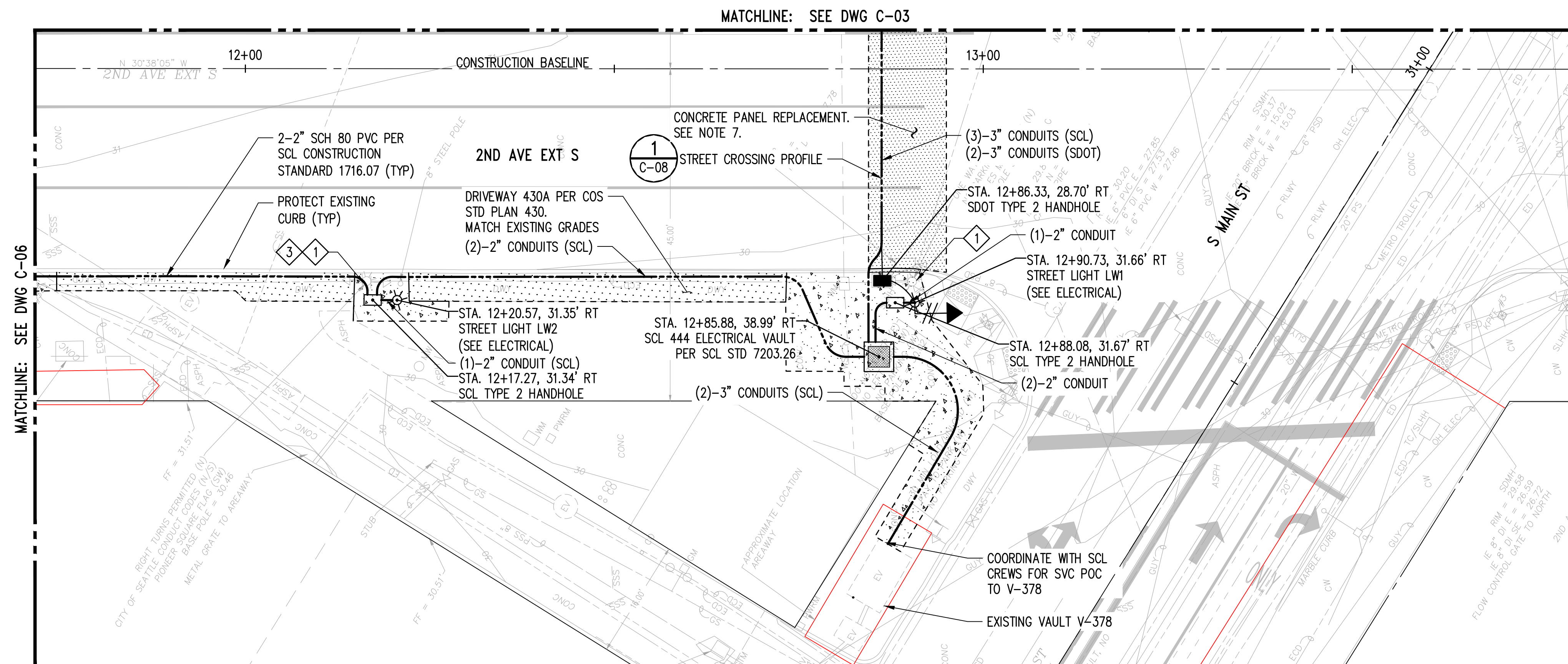
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|---|---|
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UMP NO. 412656

PROJECT TYPE		SHEET	
STREETLIGHT CIP		5 OF 21	
PROJECT NAME		WORK ORDER NO.-TASK	
STREETLIGHT SYSTEM UPGRADE			
PROJECT ADDRESS		CITY	
2ND AVE. & WASHINGTON ST. 2ND AVE EXT S PLAN AND PROFILE		SEATTLE	
		DRAWING NO.	REV. NO.
		C-05	0



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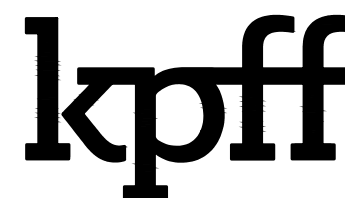
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	IMAGE				APPROVED FOR ADVERTISING
	DATE				LIZ ALZEER
	REV				DEPARTMENT OF FINANCE & ADMINISTRATIVE SERVICES
	DRAWN BY: CHECKED BY: APPROVED BY:				SEATTLE, WASHINGTON _____ 20____
					BY: _____ CITY PURCHASING & CONTRACTING SERVICES DIRECTOR



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**Seattle City Light**  
Streetlight Engineering

APPROVED FOR SEATTLE CITY LIGHT

PROJECT ENGINEER	SHEET CONTENTS
QUARTERSECTION NUMBER(S)	SECTION / TOWNSHIP / RANGE

ONE INCH AT FULL SIZE	REVIEWS	REV	DATE	IMAGE	DRAWN BY: CHECKED BY: APPROVED BY:	WORK ORDER #:	DESCRIPTION	SPECIFICATION NUMBER: _____ APPROVED FOR ADVERTISING LIZ ALZEER DEPARTMENT OF FINANCE & ADMINISTRATIVE SERVICES SEATTLE, WASHINGTON _____ 20____		 Know what's below. Call before you dig.	 1601 5th Avenue, Suite 1600 WA 98101 206.622.5822 www.kpff.com	100 % REVIEW 11/04/20 <div>THIS DRAWING IS THE PROPERTY OF THE CITY OF SEATTLE AND ITS SEATTLE CITY LIGHT DEPARTMENT. IT IS PRODUCED SOLELY FOR THE USE BY SEATTLE CITY LIGHT AND OTHER CITY DEPARTMENTS. THE USE, REPRODUCTION, AND TRANSFER OF THIS DRAWING AND/OR ANY INFORMATION CONTAINED IN THE DRAWING REQUIRES THE WRITTEN PERMISSION OF SEATTLE CITY LIGHT.</div>		ENDORSEMENTS		 <b>Seattle City Light</b> Streetlight Engineering	PROJECT TYPE STREETLIGHT CIP		SHEET 5 OF 21	
								SIGNATURE      DATE DRAWN: JL      11/04/20 CHECK: JCG      11/04/20 APPROVED: JCG      11/04/20						PROJECT NAME STREETLIGHT SYSTEM UPGRADE			WORK ORDER NO.-TASK			
								BY: CITY PURCHASING & CONTRACTING SERVICES DIRECTOR						APPROVED FOR SEATTLE CITY LIGHT		PROJECT ADDRESS 2ND AVE. & WASHINGTON ST. 2ND AVE EXT S PLAN AND PROFILE		CITY <b>SEATTLE</b>		
														PROJECT ENGINEER QUARTERSECTION NUMBER(S)      SECTION / TOWNSHIP / RANGE		SHEET CONTENTS C-05      0		DRAWING NO.      REV. NO.		



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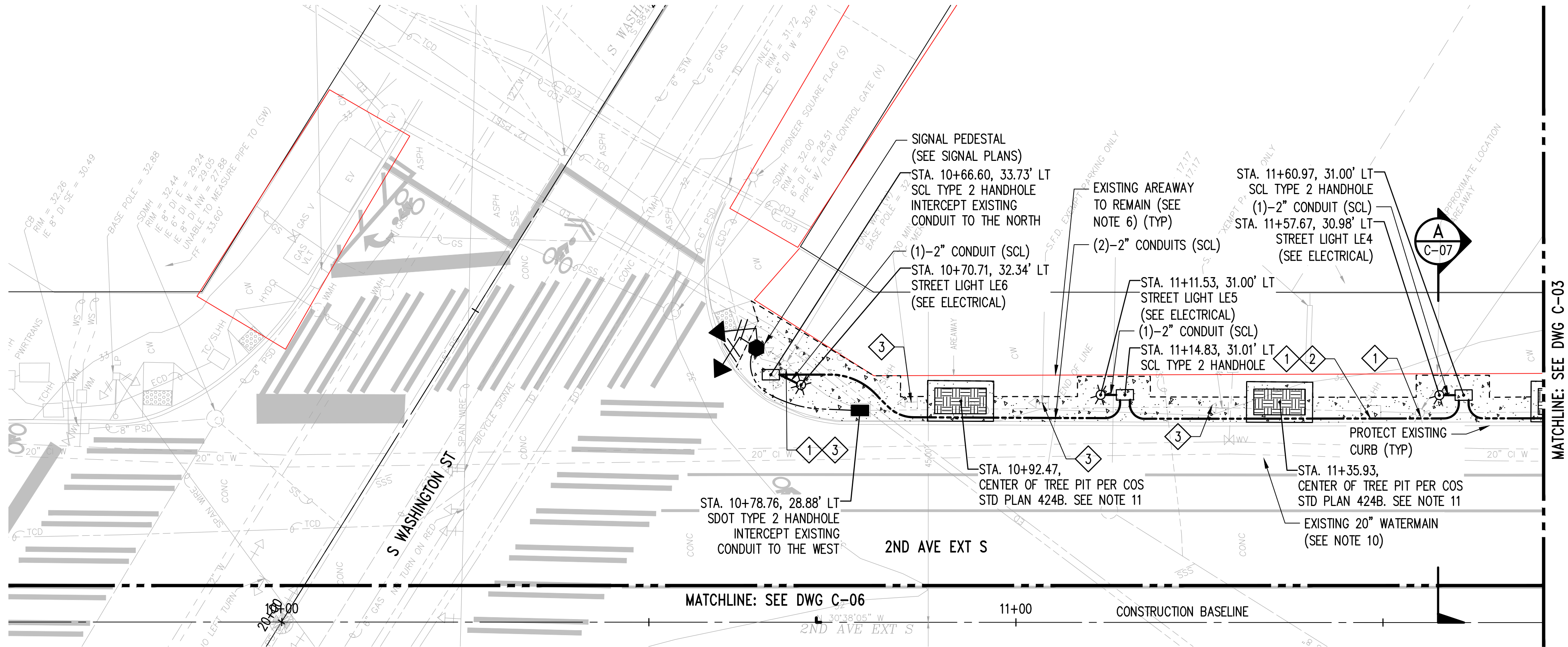
LEGEND

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Streetlight Engineering

APPROVED FOR SEATTLE CITY LIGHT

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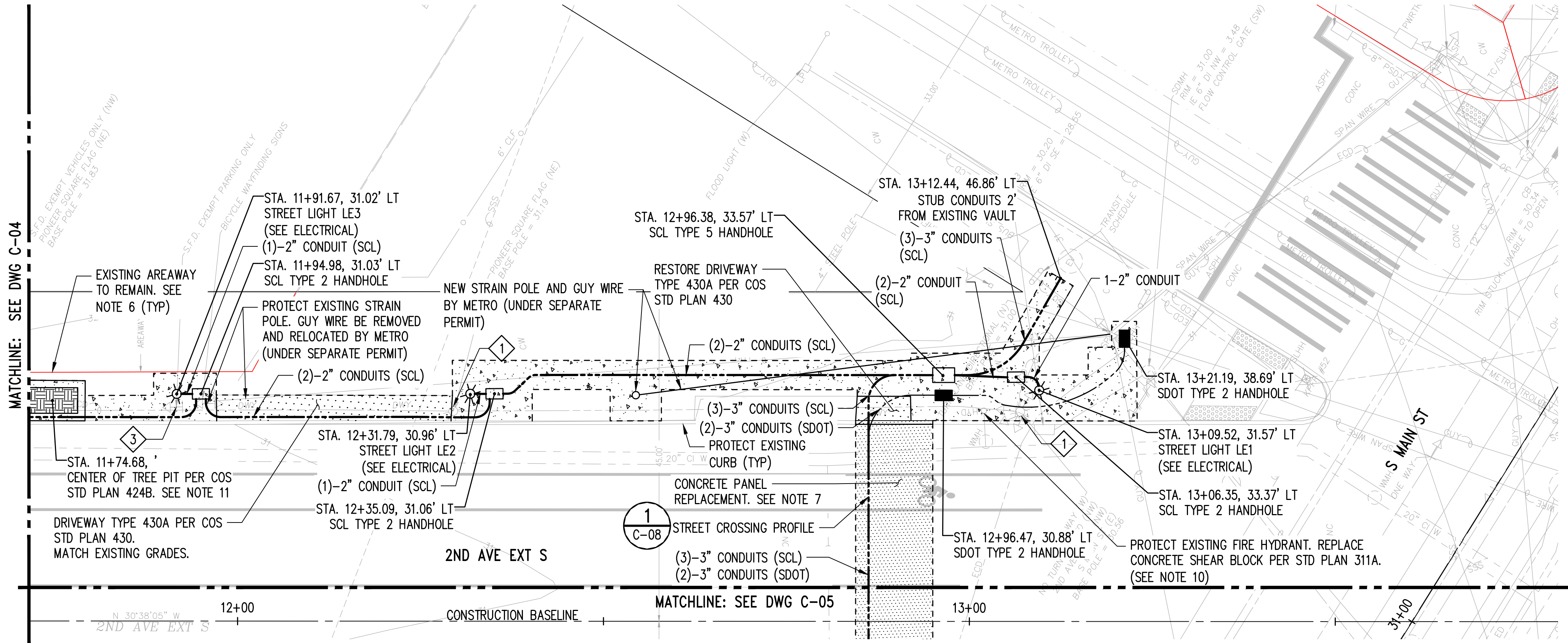
PROJECT TYPE	STREETLIGHT CIP		UMP NO. 412656
PROJECT NAME	STREETLIGHT SYSTEM UPGRADE		SHEET 4 OF 21
PROJECT ADDRESS	2ND AVE. & WASHINGTON ST. 2ND AVE EXT S PLAN AND PROFILE		WORK ORDER NO.-TASK
CITY		SEATTLE	CITY
DRAWING NO.		C-04	REV. NO.
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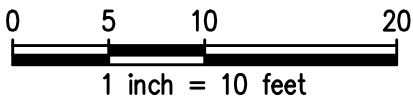
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ENDORSEMENTS	
SIGNATURE	DATE
DRAWN: JL	11/04/20
CHECK: JCG	11/04/20
APPROVED: JCG	11/04/20

<b>Seattle City Light</b> Streetlight Engineering	
APPROVED FOR SEATTLE CITY LIGHT	
PROJECT ENGINEER	SHEET CONTENTS
QUARTERSECTION NUMBER(S)	SECTION / TOWNSHIP / RANGE

PROJECT TYPE	STREETLIGHT CIP		SHEET	3 OF 21	
PROJECT NAME	STREETLIGHT SYSTEM UPGRADE		WORK ORDER NO.-TASK		
PROJECT ADDRESS	2ND AVE. & WASHINGTON ST. 2ND AVE EXT S PLAN AND PROFILE		CITY	SEATTLE	
			DRAWING NO.	C-03	REV. NO.
					0



# Seattle City Light

## 2<sup>ND</sup> AVENUE EXTENSION STREETLIGHT INFRASTRUCTURE REPLACEMENT PROJECT

PW No. 2020-078

### City Light Furnished Material Data/Cut Sheets

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1. SCL Construction Standard 1716.38 - Streetlight Poles, Chief Seattle, Foundation, Base, and Collar Installation
2. SCL Material Standard 5721.17 - Arm Assemblies, Streetlight Pole, Decorative, Three-Ball, Globe
3. SCL Materials Standard 5721.0 - Compression Plate for Three Globe Luminaire
4. SCL Materials Standard 5724.15 - Globe Fixtures
5. SCL Material Standard 5780.44 - Cast Bronze Streetlight Bases and Collar Assemblies
6. SCL Drawing No. D-41035 - Chief Seattle Ornamental Pole Details Sheet 1 of 2  
Chief Seattle Ornamental Pole Details Sheet 2 of 2
7. SCL Stock Catalog Page 57-2 – Steel Pole, Chief Seattle Ornamental
8. SCL Stock Catalog Page 57-10 – Cast Bronze Streetlight Base and Collar Assemblies
9. SCL Stock Catalog Page 57-11 – 3-Ball, Globe Cross Arm Assemble & Compression Plate



## Streetlight Poles, Chief Seattle, Foundation, Base, and Collar Installation



### 1. Scope

This standard covers the requirements for installing Chief Seattle streetlight pole foundations, bases and collars.

This standard applies only to Chief Seattle streetlights with base and collar assemblies measuring 10 to 12 inches in diameter.

Strain poles with Chief Seattle bases and collars are not owned by Seattle City Light (SCL) and are therefore outside the scope of this document.

### 2. Application

Chief Seattle streetlights are only installed in special districts. Contact Streetlight Engineering for specific details.

Foundations for Chief Seattle streetlight poles are poured in place as opposed to being precast.

Regardless of type, all Chief Seattle streetlight poles owned by SCL require a bolt circle measuring 15-3/4 inches in diameter.

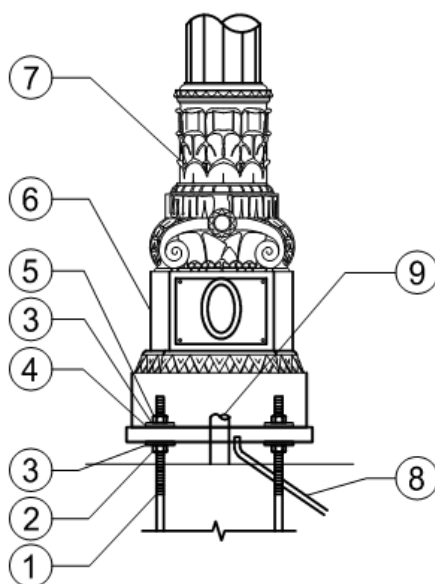
Chief Seattle streetlight pole foundations are required for streetlight poles with the following stock numbers:

Stock No.	Length (ft)	Application
569518	18	3-globe fixtures
569530	26	Aladdin arm assembly
569531	31	Aladdin arm assembly (used on Alaskan Way)

### 3. Material List

Item No.	Description	Stock No.	Quantity
1	Anchor bolt, 1 in (dia) x 36 in (length) x 4 in (hook)	Supplied with pole	4 ea
2	Leveling nut	Supplied with pole	4 ea
3	Flat washer	Supplied with pole	8 ea
4	Lock washer	Supplied with pole	4 ea
5	Hex nut	Supplied with pole	4 ea
6	Base assembly with access door		1 ea
	Cast bronze	568030	
	Cast aluminum	568031	
7	Collar assembly		1 ea
	Bronze, 10 in diameter	568032	
	Bronze, 12 in diameter	012474	
	Aluminum, 10 in diameter	568033	
	Aluminum, 12 in diameter	568039	
8	3/4-in Schedule 40 PVC	734526	4 ft
9	Conduit	Per drawing	Per drawing

**Figure 3. Material List**



#### 4. Material Requirements

##### 4.1 Concrete

Concrete shall be Class 3000 and meet the requirements of the City of Seattle Standard Specifications for Road, Bridge, and Municipal Construction (City of Seattle Standard Specifications) 6-02.

Concrete shall have a minimum compressive strength at 28 days of 3000 psi in accordance with the American Association of State Highway and Transportation Officials (AASHTO) T 22 standard.

##### 4.2 Anchor Bolts, Nuts and Washers

Anchor bolts shall measure 1 inch in diameter by 36 in (length) by 4 in (hook).

Anchor bolts, nuts, and washers shall meet the requirements of the City of Seattle Standard Specifications 9-06.

##### 4.3 Grout

Grout shall meet the requirements of the City of Seattle Standard Specifications 9-20.

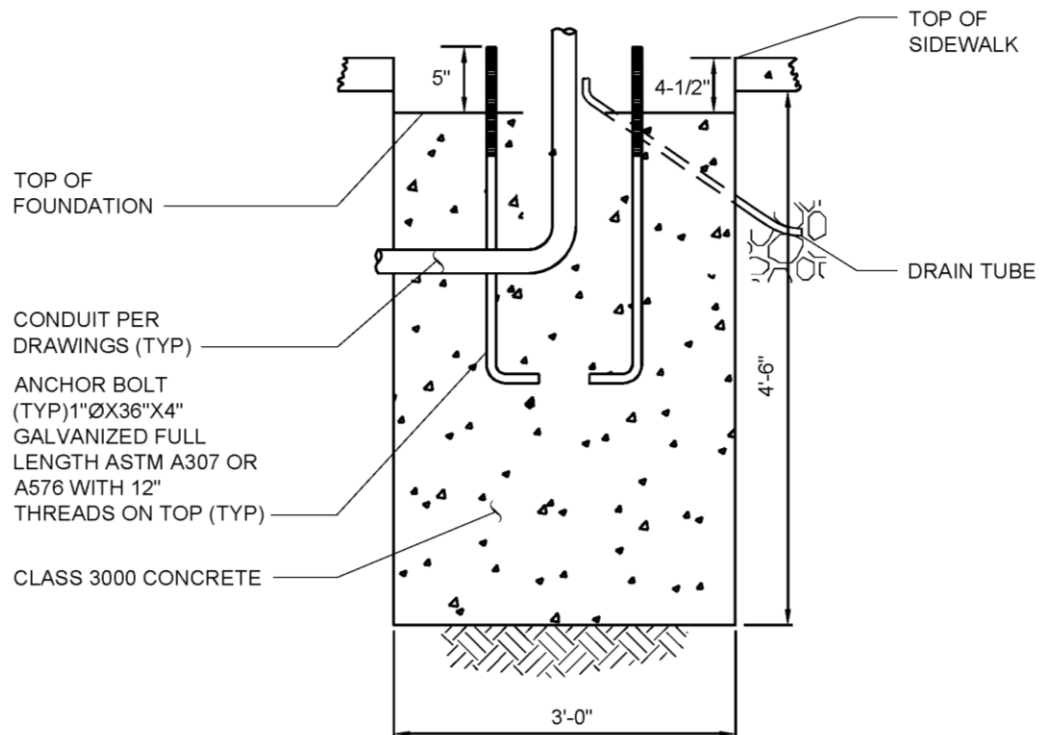
#### 5. Requirements

##### 5.1 General

Foundation shall conform to the requirements in Figure 5.1.

For foundations installed on an incline, see Section 5.2.

**Figure 5.1. Requirements for Chief Seattle Streetlight Foundation, Profile View**



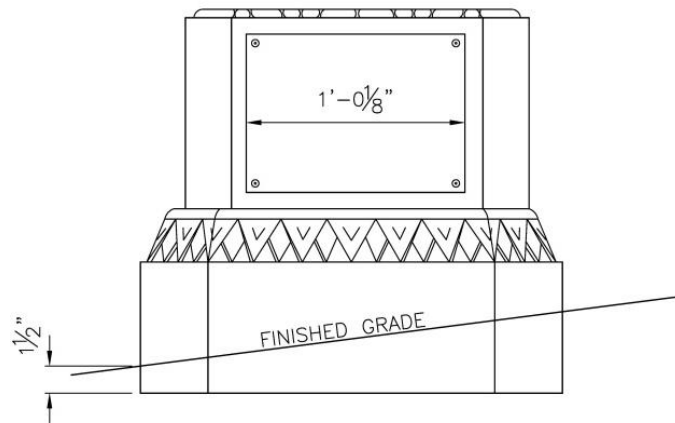


## 5.2 Special Consideration, Installations on an Incline

Installations on an incline shall conform to the requirements outlined in this document with a slight variation in installation depth. The installation depth for the foundation shall be determined by the Streetlight Engineer to meet the requirements shown in Figure 5.2.

On an incline, the base of the finished installation shall be embedded 1-1/2 inches at the low point of the sidewalk grade.

**Figure 5.2. Chief Seattle Base, Incline Installation**

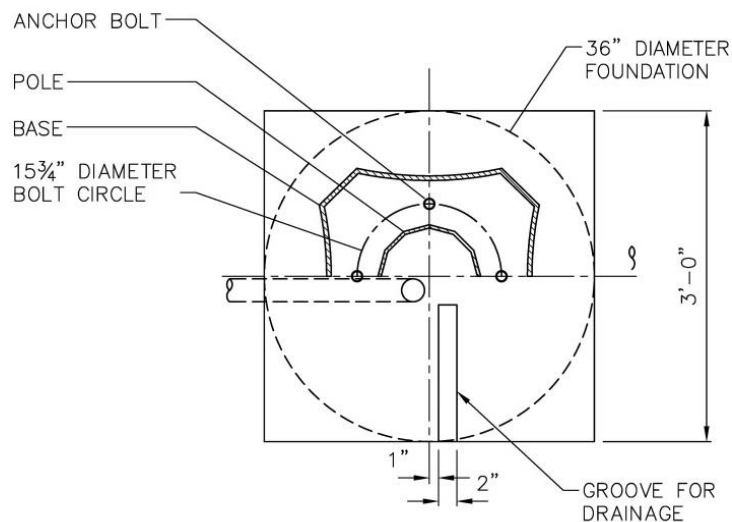


## 5.3 Foundation

Foundation shall be augured and constructed against undisturbed soil.

Foundation shall be installed with bolt pattern oriented diamond-shape to the curb. A groove at the top of the foundation shall be made for water drainage. The groove shall run from the center to the low side of the foundation. See Figure 5.3.

**Figure 5.3 Requirements for Chief Seattle Streetlight Foundation, Plan View**



Concrete shall be placed against undisturbed earth within a dry hole. Should a dry hole not be maintained, the installer shall select a method of concrete placement which does not adversely impact the strength or durability of the concrete as approved by the Streetlight Engineer.

In unstable ground, the installer shall install Sonotube or other approved form material to provide undisturbed concrete placement. Backfill between form material and undisturbed earth shall be controlled density fill.

Each foundation shall be poured in one continuous pouring operation.

Where new excavations are near an existing foundation, the installer shall provide temporary support for the existing structure as appropriate.

Where foundations are installed on slopes, foundation depth shall be measured using the shortest bearing surface.

A 3/4-in schedule 40 PVC drain tube shall be installed on the low side of the foundation to a rock pocket outside the foundation. See Figure 5.1.

Conduit shall extend 1 in above the pole base plate.

#### **5.4 Anchor Bolts**

Anchor bolts shall be set securely in place and held in a vertical position with the specified bolt projection and at the specified bolt circle to match the exact bolt pattern of Chief Seattle streetlight pole.

Prior to placing concrete, all projecting anchor bolts shall be taped with a corrosion protection tape from a point 6 inches below the top of the foundation to the top of the bolt. Tape shall conform to the requirements of SCL 7366.35 and shall remain permanently in place.

Nuts and washers shall be installed over the tape.

The tops of each bolt shall all be at the same elevation.

A steel template shall be used at the lower end, and a wood or steel template shall be used at the upper end of the anchor bolts, to maintain the correct bolt pattern and spacing until the concrete has set.

Anchor bolts shall not be altered in any way after fabrication.

Bending of anchor bolts is unacceptable and will be cause for removal and replacement of the entire foundation.

Where required, the bolt circle shall be measured by the Streetlight Engineer prior to pouring the concrete.

Immediately after concrete is placed, the location of the anchor bolts shall be checked with a template conforming to the bolt pattern of the Chief Seattle streetlight pole.

After the concrete is placed, anchor bolts and conduit shall be cleaned and kept free of concrete splatter and mortar.

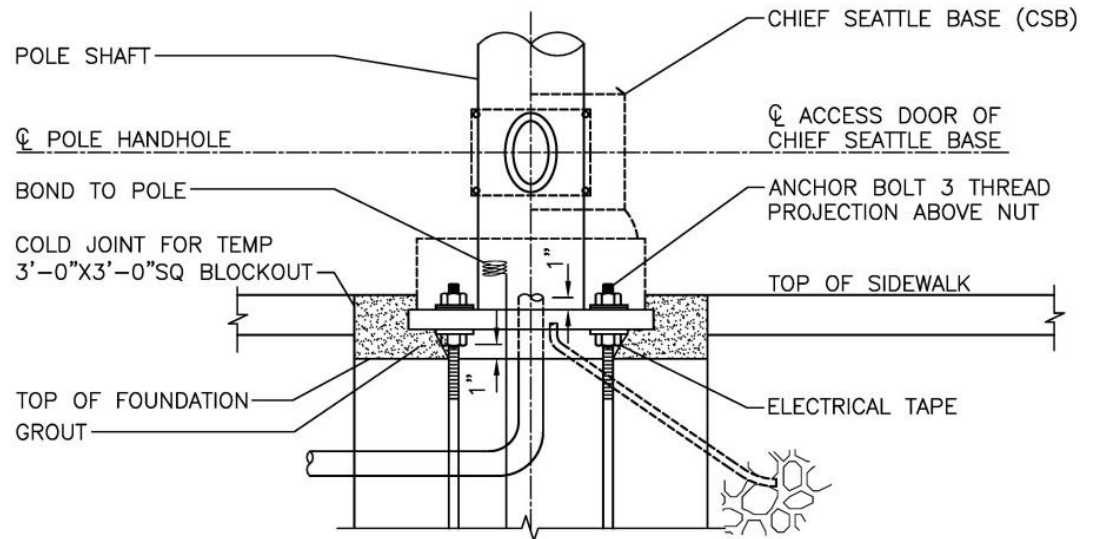
Concrete shall be float-finished, edged, and brushed where necessary. Adjusting anchor bolts to make them fit the hole-pattern in the base plate will not be allowed after concrete has begun to set.



## 5.5 Mounting and Grouting

Mounting and grouting shall conform to the requirements in Figure 5.5.

**Figure 5.5. Requirements for Mounting and Grouting**



The clearance between the bottom of the leveling nut and the top of the foundation shall be one-inch nominal with a tolerance of one-eighth inch.

Before placing grout, concrete should be cleaned, roughened, and wetted with water to ensure proper bonding.

Base shall be embedded at low point of sidewalk grade.

## 6. Base and Collar

All SCL-owned streetlight poles require the use of the 10-in diameter collars.

The interior flutes on the top of the collar may be slightly grounded to allow a snug fit against the pole.

The space between the top of the collar and the pole shall be caulked to prevent entrance of moisture and debris. Sealant material shall be Sikaflex-15 LM black polyurethane or approved equal. Contact Streetlight Engineering for product approval.

## 7. References

**SCL Material Standard 5680.33**; "Cast Aluminum Streetlight Base and Collar Assemblies"

**SCL Material Standard 5680.44**; "Cast Bronze Streetlight Base and Collar Assemblies"

**SCL Material Standard 7366.35**; "Tape, Corrosion Protection"

## 8. Sources

**American Association of State Highway and Transportation Officials (AASHTO)**  
**T 22**; Standard Method of Test for Compressive Strength of Cylindrical Concrete Specimens, AASHTO, Washington, DC, 2014

**Borek, Tom**; SCL Streetlight Engineer, subject matter expert for 1716.38;  
(tom.borek@seattle.gov)

**Chao, Yaochiem**; SCL Standards Engineer, subject matter expert and originator of 1716.38; (yaochiem.chao@seattle.gov)

**City of Seattle Standard Specifications for Road, Bridge, and Municipal Construction**; 2014 Edition

**Li, Jesse**; SCL Streetlight Engineer and subject matter expert for 1716.38;  
(jesse.li@seattle.gov)



## Arm Assemblies, Streetlight Pole, Decorative, Three-Ball, Globe



### 1. Scope

This standard covers the requirements for three-ball globe decorative arm assemblies and compression plates.

This standard applies to the following Seattle City Light (SCL) stock numbers:

Stock No.	Description
572900	3-Ball Globe Arm Assembly
572902	3-Ball Globe Compression Plate

Chief Seattle ornamental steel streetlight poles and ball globes are outside the scope of this standard and must be ordered separately. See SCL 5756.22 and SCL 5724.15, respectively.

### 2. Application

Three-ball globe arm assemblies and compression plates are used exclusively with Chief Seattle ornamental steel streetlight poles and globe luminaires and are installed in the following City of Seattle lighting districts: Pioneer Square and Central Business District.

Seattle City Light owns the aluminum, three-ball globe arm assembly casting patterns, which are stored at Travis Pattern & Foundry, Inc.

Standard Coordinator  
Quan Wang

Standards Engineering Supervisor  
John Shipek

Division Director  
Andrew Strong

### 3. Industry Standards

Three-ball globe arm assemblies and compression plates shall meet the applicable requirements of the latest revision of the following industry standards:

**ASTM A 153**; Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware

**ASTM B26-12**; "Standard Specification for Aluminum Alloy Sand Castings"

**AASHTO**; Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals

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### 4. Requirements

#### 4.1 Three-Ball Globe Assemblies

Three-ball globe arm assemblies shall conform to the details in Travis Pattern & Foundry drawing, "Seattle Lamp, Revision A," dated 12/10/2012.

Travis Pattern & Foundry shall inform SCL in writing of all updates to the drawing.

Three-ball globe arm assemblies shall conform to the attributes as shown in Table 4.1 and figures 4.1a and 4.1b.

Finish shall be polyester powder coated "Sherwin Williams DGS-4003, Railroad Green color" and AAMA 2604 compliant.

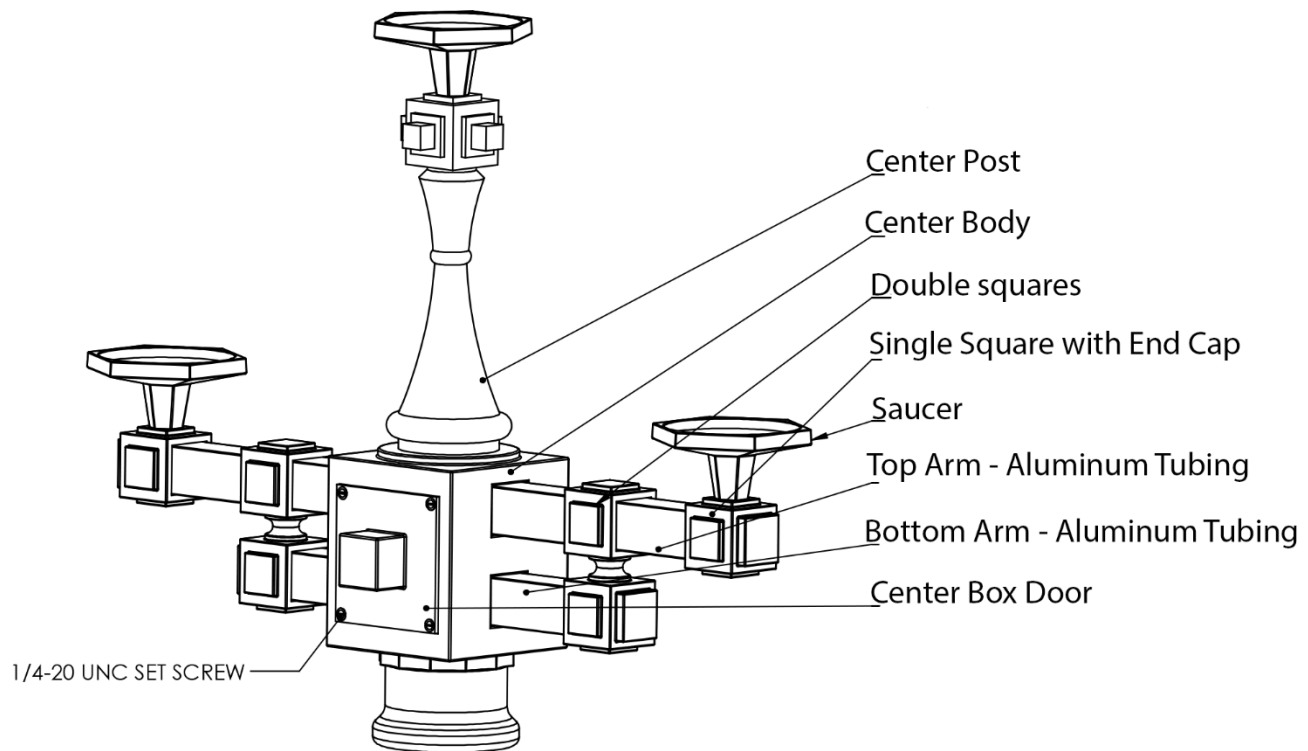
Three-ball globe arm assemblies shall include the components and quantities as shown in Table 4.1:



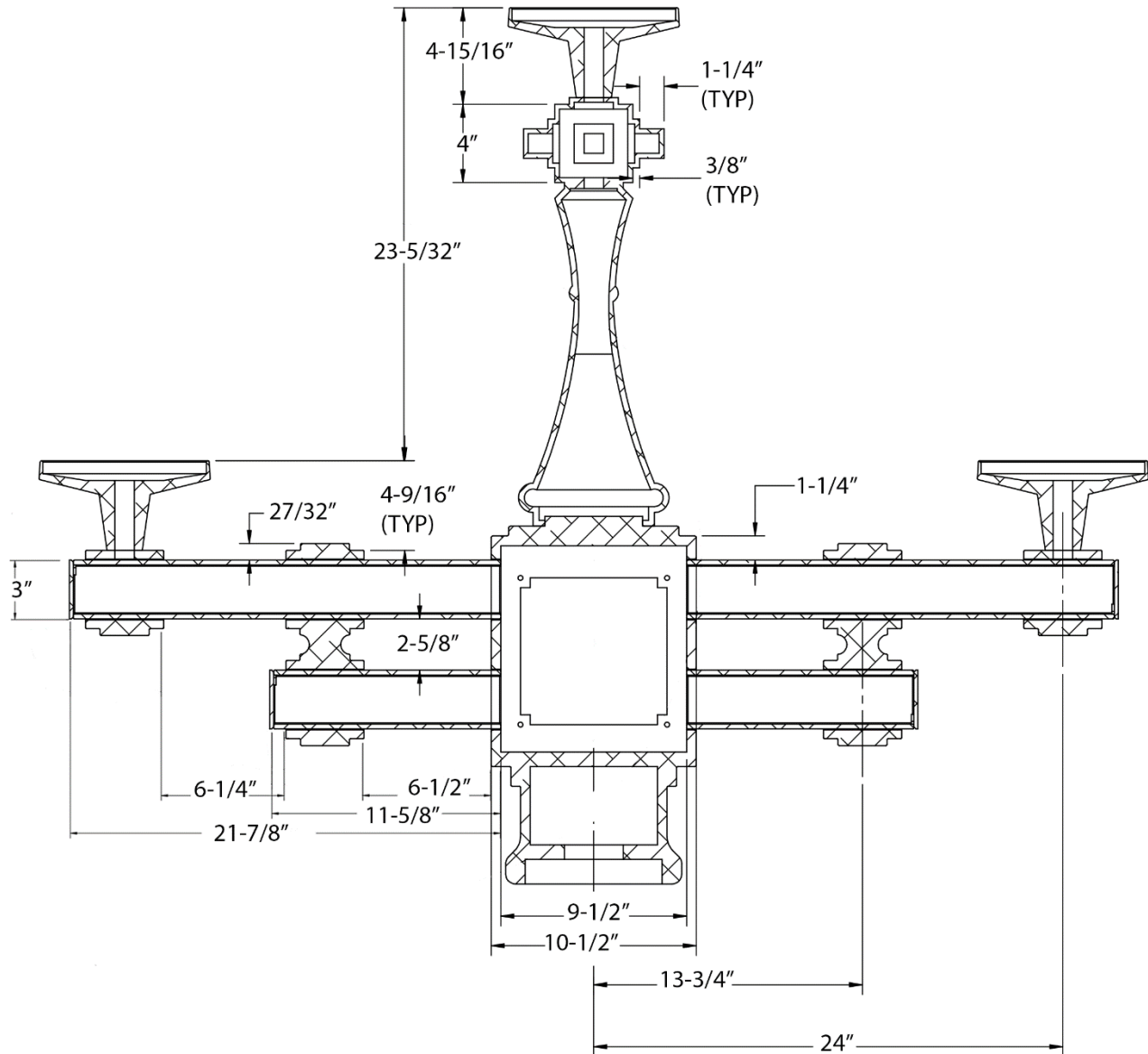
**Table 4.1. Three-Ball Globe Assembly Component Attributes and Quantity**

Components	Material	Quantity
Center Post	Cast Aluminum	1
Center Body	Cast Aluminum	1
Double Squares	Cast Aluminum	3
Single Square with End Cap	Cast Aluminum	2
Saucer	Cast Aluminum	3
Top Arm, 3" x 3" x 21-7/8", 1/4" Wall Thickness	6061 Aluminum Tubing	2
Bottom Arm, 3" x 3" x 11-5/8", 1/4" Wall Thickness	6061 Aluminum Tubing	2
Center Box Door	Cast Aluminum	1

**Figure 4.1a. Three-Ball Globe Assembly Component Diagram**



**Figure 4.1b. Three-Ball Globe Arm Assemblies, Overall Dimensions, Nominal**



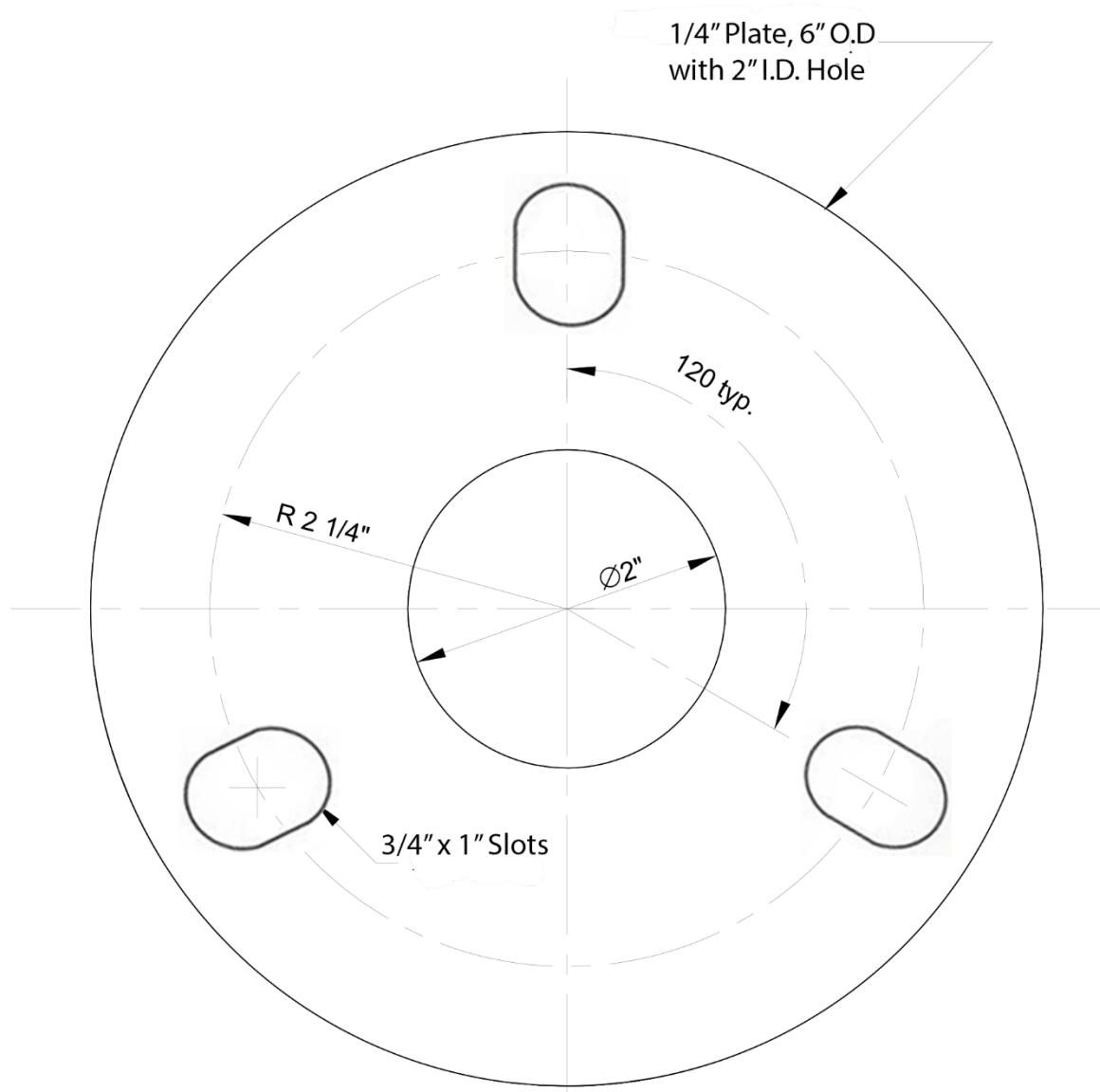
## 4.2 Compression Plates

Compression plates shall be made of aluminum or hot dipped galvanized steel.

Compression plates shall have three  $\frac{3}{4}" \times 1"$  slots at 120-degrees and a  $4\frac{3}{8}"$  bolt circle.

Compression plates shall conform to the dimensions as shown in Figure 4.2

**Figure 4.2. Compression Plate Dimensions (in)**



## 5. Packaging

Three-ball globe arm assemblies and compression plates shall be protected during shipping, outside storage and installation.

Center posts are shipped separately from the main body of the arm assemblies.

Each shipping container shall be legibly marked with the following information:

- Manufacturer identification
- Product description
- SCL stock number
- Quantity
- SCL purchase order number



## 6. Issuance

Stock Unit: EA

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## 7. Approved Manufacturers

Stock No.	Description	Garmire Iron Works Inc.
572900	Three-Ball Globe Arm Assembly	Three-Globe Arm Assembly
572902	Three-Ball Globe Compression Plate	592902

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## 8. References

**AAMA 2604**, Voluntary Specification, Performance Requirements and Test Procedures for High Performance Organic Coating on Aluminum Extrusions and Panels, 2005 (2020 latest revision)

**SCL Material Standard 5724.15**; "Globe Fixtures"

**SCL Material Standard 5756.22**; "Steel Streetlight Poles, Ornamental, Chief Seattle"

**Travis Pattern & Foundry Inc. drawing, "Seattle Lamp, Revision A,"** December 10, 2012

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## 9. Sources

**Borek, Tom**, SCL Streetlight Engineer and subject matter expert for 5721.17

**Wang, Quan**; SCL Standards Engineer, originator, and subject matter expert for 5721.17.

**The Light Group drawing, "Seattle Lamp, 3-Globe Arm Assembly,"** October 19, 2012

**SCL Stock Catalog page 57-11**, August 19, 2014

**SCL Material Standard 5721.0**; "Compression Plate for Three Globe Luminaire" (canceled)

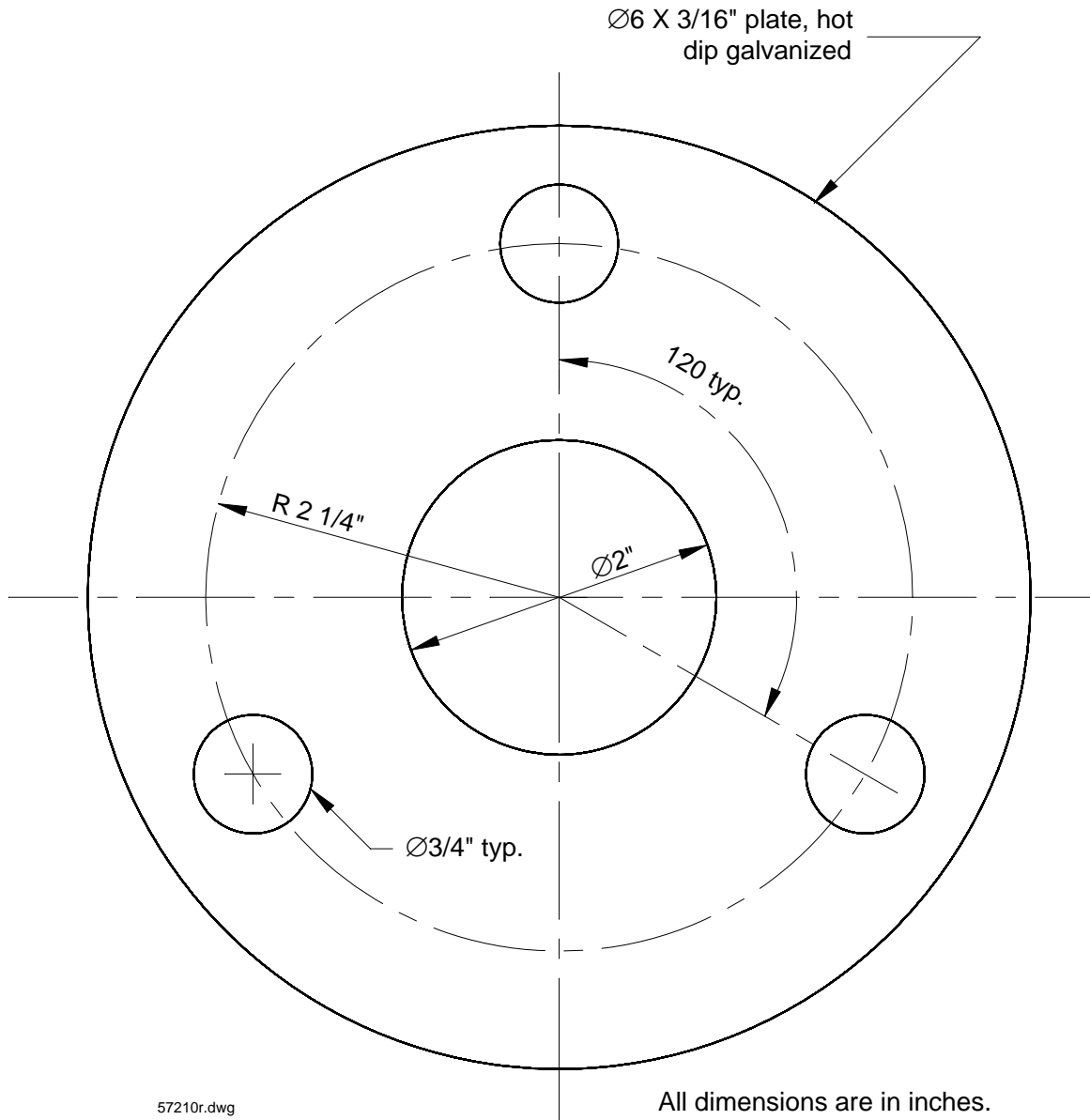
**[www.garmireironworks.com/](http://www.garmireironworks.com/)**

**MATERIAL STANDARD**

STANDARD NUMBER: **5721.0**  
PAGE: 1 of 1  
DATE: February 25, 1999  
REV: January 25, 2000

**COMPRESSION PLATE FOR  
THREE GLOBE LUMINAIRE**

This plate is used to adapt the three globe luminaire, Stock No. 572900 to fluted steel poles.



Stock Unit: Each

Shop made

Plates shall be hot dip galvanized in conformance with ASTM A-153.

Stock No. 572902

ORIGINATOR	STANDARDS COORDINATOR	STANDARDS SUPERVISOR	UNIT DIRECTOR
<i>Jim L. Horn</i>	<i>Charles L. Shaffer</i>	<i>John C. Chinner</i>	<i>Betty Robm</i>

## Globe Fixtures



### 1. Scope

This standard covers the requirements for globe fixtures and associated LED lamp and shield kit.

This standard applies to the following Seattle City Light (SCL) stock numbers:

Stock No.	Description
014459	Cyclone globe fixture, 22-in
014465	Cyclone globe fixture, 20-in
014466	Cyclone globe fixture, 18-in
014460	Evluma Omnimax LED lamp
014461	Shield kit

### 2. Application

Globe fixtures are used in a variety of locations, including historical districts as well as the Stadium and Mercer areas of the city.

The LED lamp specified in this standard can also be used in other mogul-base fixtures.

A conical light deflector (Shield Kit, Stock No. 014461) may be fitted over the internal light socket of the globe fixture to provide for globe illumination uniformity.



### 3. Requirements

#### 3.1 Globe Fixtures

Fixture components shall include the following:

- One-piece white opal acrylic head module
- Porcelain lamp socket with 5-in diameter socket holder
- Custom-cast fitter for adapting fixture to SCL fluted steel poles with an 8-inch-wide diameter neck
- Terminal block for line-side connections, for mounting to underside of fitter

Fixtures shall be UV stabilized.

Fixtures shall have IP66 weatherproof protection.

Fixture shall be designed for tool-less installation and maintenance of all chambers.

Fixture shall have a rotational locking mechanism for easy lamp replacement.

Locking system shall be cast of 356 aluminum alloy with composition of less than .2% each of copper and iron and sealed with a gasket compression system.

The top half of the rotational locking system mechanism shall be integrally bonded and sealed, and mechanically fastened to the globe.

All external metal parts shall be powder coated, with color to match Parker-Marathon paint color Railroad Green, P25-4497.

All aesthetic exterior fasteners shall be corrosion resistant and die cast aluminum. Internal fasteners shall be stainless steel.

Fixture shall be UL Listed or cUL Listed for wet locations.

#### 3.2 LED Lamps

LED lamps shall meet the applicable requirements of ANSI C62.41.2 and this standard.

Lamps shall be UL Recognized.

**Table 3.2. LED Lamps**

On state power consumption, nominal	70 W
Correlated Color Temperature (CCT), nominal	2.7K
Color rendering index (CRI), minimum	82
Lumens, minimum	6400
Ambient temperature outside fixture	
Minimum	-40° C
Maximum	40° C
Base type	E39 (mogul)
Dimensions	3.4 in W x 7.3 in H
Starting temperature, minimum	-10 C / 14 F
Line voltage, nominal	120–277 Vac
Power factor	> 98%
Total harmonic distortion (THD)	< 18% at 120 Vac
Life, nominal	> 60,000 hours
Surge rating	20 kV / 10kA

#### 4. Approved Manufacturers

##### **Stock No. 014459, Globe Fixture, 22-in**

**Manufacturer:** Cyclone Luminaire

**Catalog Number:** CG11T4-D22-SPAO-LEDMO-120-SC-TX-CP5759

*where:*

CG11T4 = globe-style fixture

D22 = diameter, 22 in

SPAO = sphere, acrylic opal (white)

LEDMO = mogul base for LED lamp

120 = voltage

SC = special color, railroad green

TX = textured paint finish

CP5759 = manufacturer record number

##### **Stock No. 014465, Globe Fixture, 20-in**

**Manufacturer:** Cyclone Luminaire

**Catalog Number:** CG11T4-D20-SPAO-LEDMO-120-SC-TX-CP6023

*where:*

CG11T4 = globe-style fixture

D20 = diameter, 20 in

SPAO = sphere, acrylic opal (white)

LEDMO = mogul base for LED lamp

120 = voltage

SC = special color, railroad green

TX = textured paint finish

CP6023 = manufacturer record number

##### **Stock No. 014466, Globe Fixture, 18-in**

**Manufacturer:** Cyclone Luminaire

**Catalog Number:** CG11T4-D18-SPAO-LEDMO-120-SC-TX-CP6024

*where:*

CG11T4 = globe-style fixture

D18 = diameter, 18 in

SPAO = sphere, acrylic opal (white)

LEDMO = mogul base for LED lamp

120 = voltage

SC = special color, railroad green

TX = textured paint finish

CP6024 = manufacturer record number

**Stock No. 014460, LED Lamp**

**Manufacturer:** Evluma

**Catalog Number:** EVLOMNI-70-27K-MO-IKL70

*where:*

EVLOMNI = Omnimax LED lamp

70 = watts

27K = 2.7K correlated color temperature

MO = E39 mogul base

IKL70 = 70 W installation kit

**Stock No. 014461, Shield Kit**

**Manufacturer:** Evluma

**Catalog Number:** EVLOMNI-SHIELDKITS

*where:*

EVLOMNI = Omnimax LED lamp

SHIELDKITS = shield kit

---

**5. Sources**

**Vanderpool, Laura;** SCL Standards Technical Writer and originator of 5724.15  
(laura.vanderpool@seattle.gov)

**Jurgens, Julie;** Representative, Cyclone Lighting (jjurgens@lightinggroupnw.com)

**Cyclone Drawing No. CG11T4-CP5759-SO0307145 – PIONEER SQUARE.DOC;**  
16/11/2018

**Cyclone Drawing No. CG11T4-CP5759-SQ\_024132 – PIONEER SQUARE PHII.DOC;**  
16/11/2018

**SCL Material Standard 5724.00;** “Induction Ball Globe Fixtures” (canceled)



## Cast Bronze Streetlight Bases and Collar Assemblies



### 1. Scope

This standard covers the requirements for cast bronze streetlight base and collar assemblies. These assemblies are also known as historic, ornamental, or Chief Seattle bases.

This standard applies to the following Seattle City Light stock numbers:

Stock Number	Description
568030	Base assembly with access door
568032	Collar assembly, 10-inch diameter
012474	Collar assembly, 12-inch diameter
568116	Access door (ordered separately)

Material requirements for cast *aluminum* streetlight base and collar assemblies are outside the scope of this standard. They are found in Material Standard 5680.33.

Poles and fixtures are outside the scope of this standard.

### 2. Application

Cast streetlight base and collar assemblies are used to support and decorate streetlight poles in city-designated historic areas and City Light-designated streetlight districts.

Table 2 identifies areas where bronze and aluminum assemblies have been installed. Contact City Light Streetlight Engineering for up-to-date application information.

**Table 2, Decorative Streetlight Base Locations**

Streetlight Districts	Casting Material
Pioneer Square	Bronze
International District	Aluminum
Westlake (3rd Avenue, Westlake Park, Pine Street, Pike Street)	Aluminum
5th Avenue central business district	Aluminum

Use 10-inch diameter collars on fluted steel poles. Use 12-inch collars on Metro strain poles located in Westlake Park. The same base will accommodate either size collar.

### 3. Industry Standards

Castings shall meet the applicable requirements of the following industry standard:

**ASTM B584-11**; "Standard Specifications for Copper Alloy Sand Castings for General Applications"

### 4. Requirements

#### 4.1 General

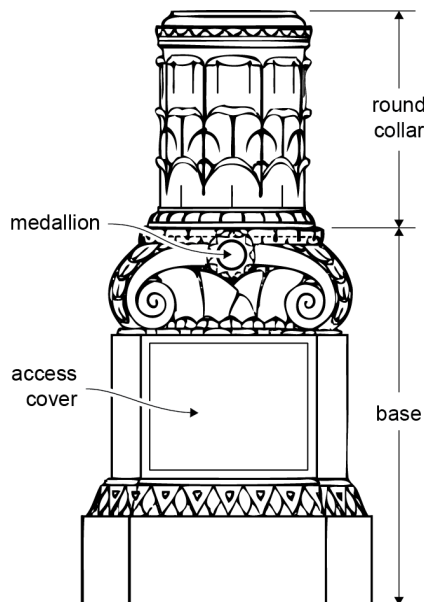
Casting patterns are the property of Seattle City Light, a department of the City of Seattle. Parts produced from the City's patterns shall not be used by any other entity without prior, written approval by the City.

Patterns shall not leave the United States.

Patterns shall not be altered or modified without prior, written approval by the City.

#### 4. Requirements continued

**Figure 4.1, Base and Collar Assembly**



The City retains the right to reclaim the patterns at any time at its discretion.

Casting material shall be C87600-series silicon-bronze alloy as specified in ASTM B584, Table 1.

Casting surfaces shall be uncoated.

Joining-surface gaps shall not exceed 1/16<sup>th</sup> inch.

The supplier shall assemble pieces according to Sections 4.2 through 4.5. A quantity-one stock number shall consist of one assembly.

Collar and base assemblies shall be secured to each other using four 1/4-20 x 3/8-inch, silicon-bronze, cup-point, set screws (SSCP (SB)).

#### 4.2 Base Assembly

Each base assembly shall be composed of two casting halves and one access door made using the patterns furnished by Seattle City Light.

The base assembly casting halves and access door shall be assembled by the supplier and secured with six 1/4-20 x 1-inch silicon bronze, flat-head socket-cap screws (FHSC (SB)).

#### 4.3 Collar Assembly

Each collar assembly shall be composed of two pieces made using the pattern furnished by Seattle City Light.

Collar assembly casting halves shall be assembled by the supplier and secured with four 10-24 x 1-inch FHSC (SB) screws.

#### 4.4 Access Door

The access door shall have nominal dimensions of 12-1/8 inches wide by 8-3/4 inches high.

The access door shall be secured to the base with two 10-24 x 1-inch FHSC (SB) screws.

#### 4.5 Medallion

Four medallions shall be used to lock the collar assembly to the base assembly.

Two medallions shall be of the fish design and two medallions shall be of the Chief Seattle design.

**Figure 4.5, Medallions**



Like designs shall be installed on faces opposite from each other.

#### 5. First Article Inspection and Approval

The successful bidder shall submit the UNS number of the copper alloy they intend to use to Seattle City Light Standards for approval prior to fabricating the first production piece.

The successful bidder shall submit a first production piece to Seattle City Light Standards for approval prior to fabricating the balance of the order.

#### 6. Packaging

Streetlight assemblies shall be packaged in wood crates designed to protect against damage that could occur during shipping, handling, or long-term outside storage.

Crates shall be secured to pallets for handling by a forklift. Loaded pallets shall not exceed 4 feet in height or 1,000 pounds in weight.

Each crate shall be legibly marked or tagged with the following information:

- Manufacturer's name
- Product description
- Seattle City Light's stock number
- Seattle City Light's purchase order number

#### 7. Issuance

Stock Unit: EA

**8. Approved Manufacturer**

Travis Pattern & Foundry, Inc. – Spokane, Washington

**9. References**

**SCL 5680.0**; “Ornamental Cast Base and Collar, Aluminum, for Streetlight Standards”; (canceled)”  
Material Standard

**SCL 5680.33**; “Cast Aluminum Streetlight Base and Collar Assemblies”; Material Standard

**Streetlight Handbook**, Seattle City Light, July 2000

**Shipek, John**; SCL Standards Engineer and originator of 5780.44.

**Sande, BJ**; Travis Pattern & Foundry, subject matter expert for 5780.44

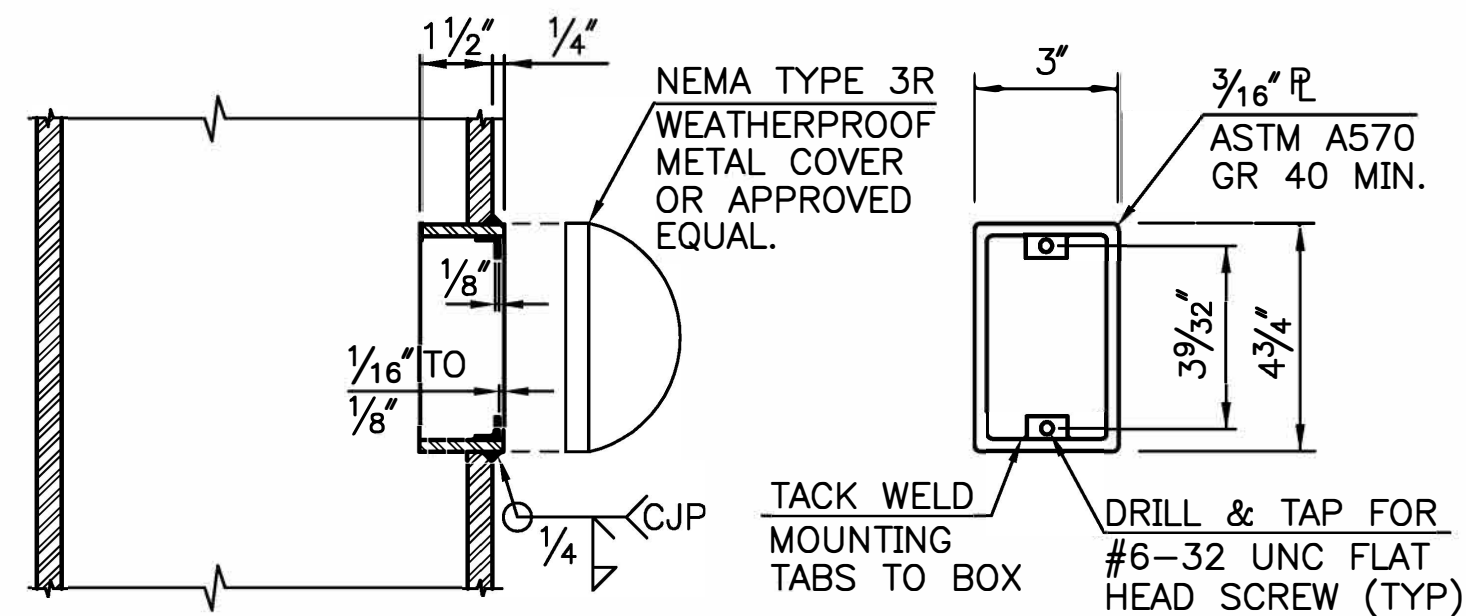
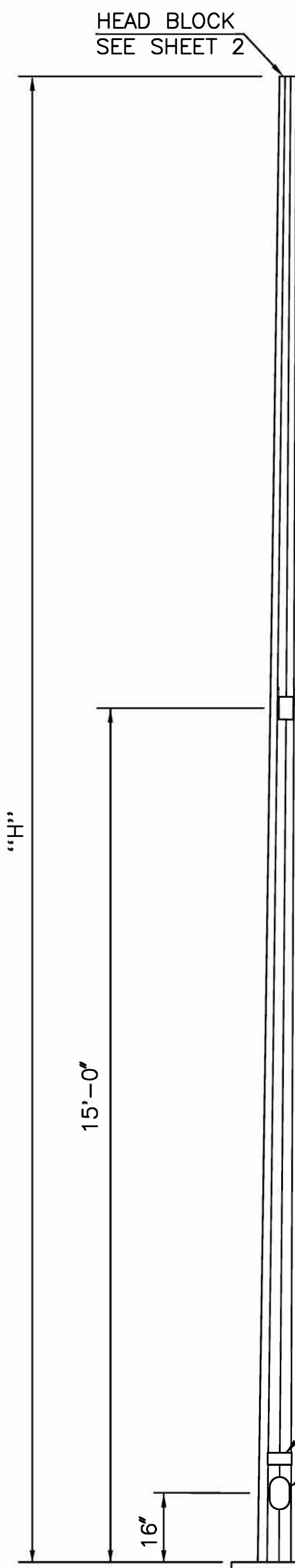
**ASME B18.12-2001** - Glossary of Terms for Mechanical Fasteners

**[www.travispattern.com](http://www.travispattern.com)**

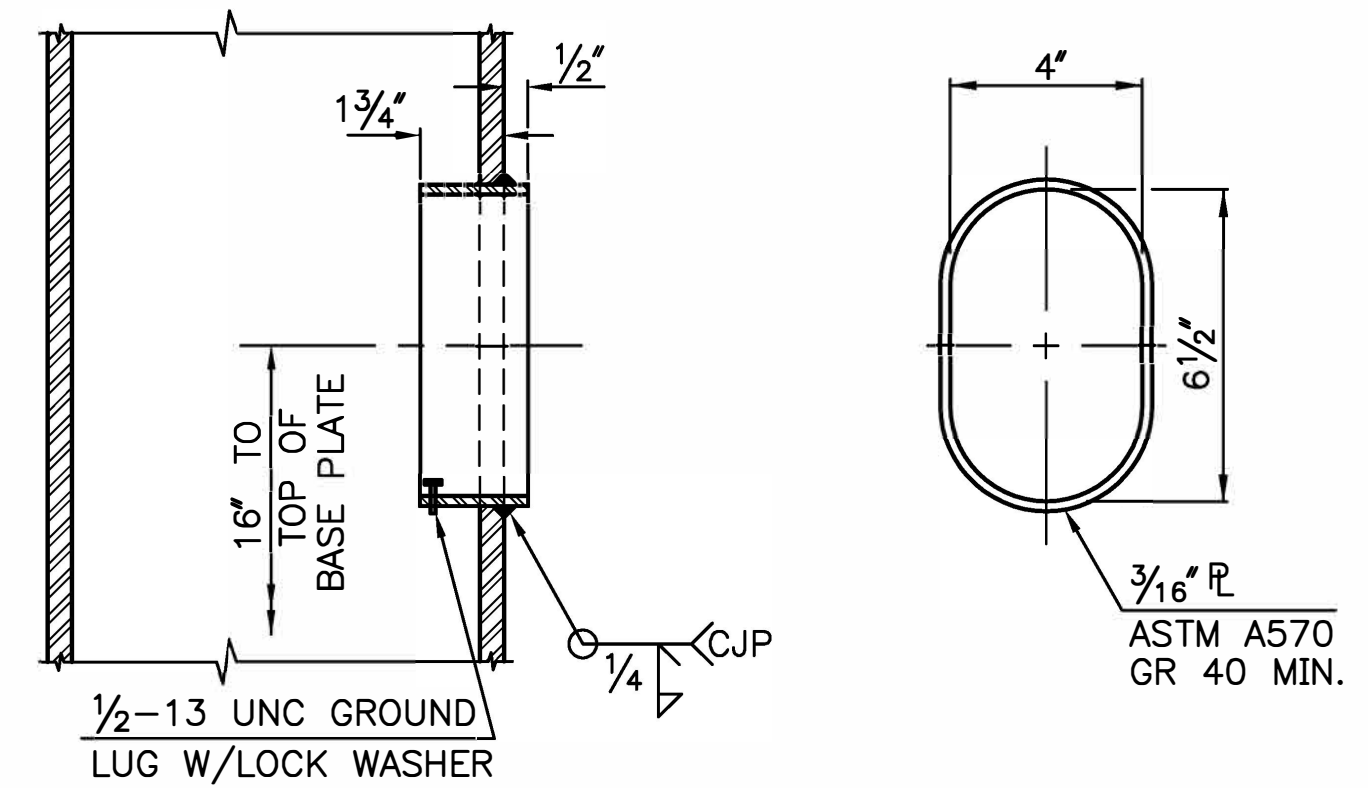
**10. Sources**

**SCL Material Standard 5680.44**; Cast Bronze Streetlight Base and Collar Assemblies”  
(canceled/renumbered)

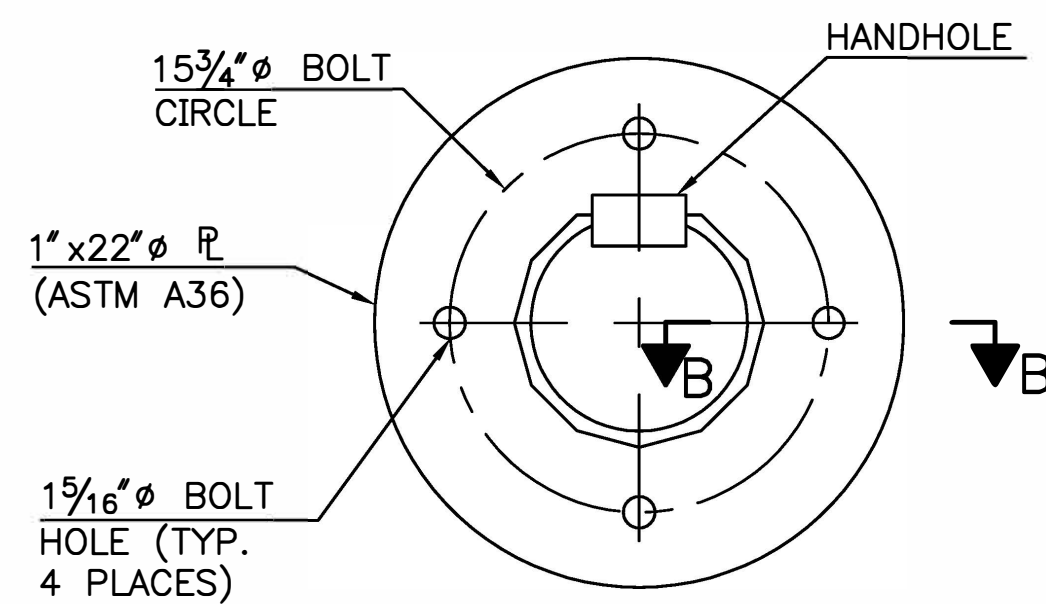




**FESTOON OUTLET** 1/1  
SCALE: 3" = 1'-0"

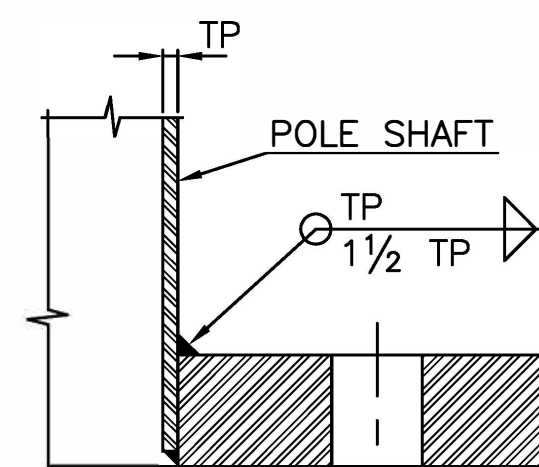


**HANDHOLE DETAIL** 2/1  
SCALE: 3" = 1'-0"



**POLE BASE PLATE** 3/1  
SCALE: 1 1/2" = 1'-0"

POLE SCHEDULE			
POLE TYPE	POLE LENGTH "H"	POLE BASE DIAMETER ACROSS POINTS	POLE TOP DIAMETER ACROSS POINTS
3-GLOBE FIXTURE	18'-0"	9 7/8"	6 5/8" + 1/16"
ALADDIN ARM	26'-6"	9 7/8"	4 3/4" + 1/16"
ALADDIN ARM	31'-6"	9 7/8"	4 3/4" + 1/16"



**SECTION B-B**  
SCALE: 3" = 1'-0"

**NOTES:**

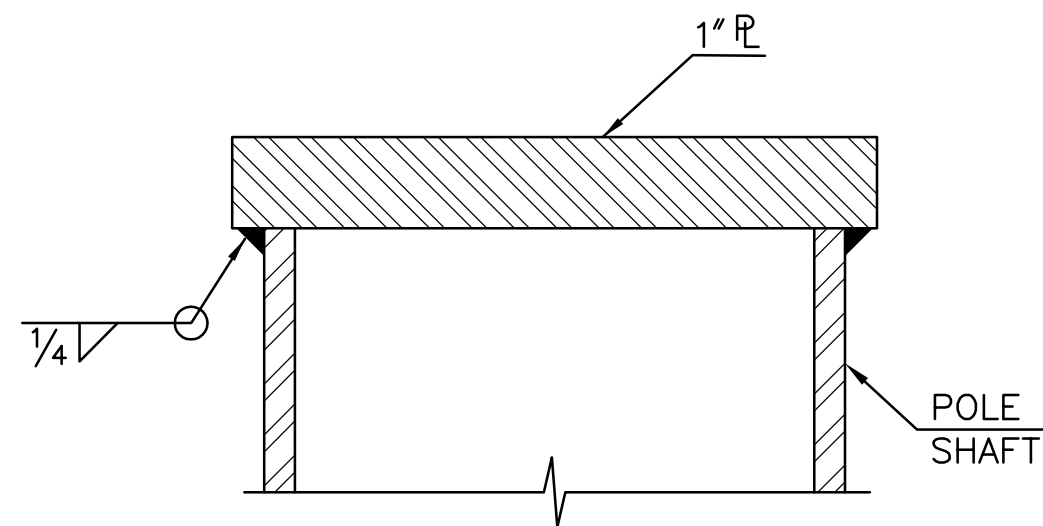
- ALL STEEL & WELDING SHALL BE IN ACCORDANCE WITH ANSI/AWS D1.1 (MOST CURRENT EDITION) STRUCTURAL WELDING CODE-STEEL. SEE SECTION 10 - TUBULAR STRUCTURES.
- POLES SHALL BE HOT DIP GALV. SEE SHEET 2
- POLE SHALL BE PAINTED RAILROAD GREEN, PARKER-MARATHON COLOR NO. P25-4497. SEE SHEET 2.

REVISIONS		MF	APP
REV	DATE	DR	CK
W.O#	DESCRIPTION	0	W.O#

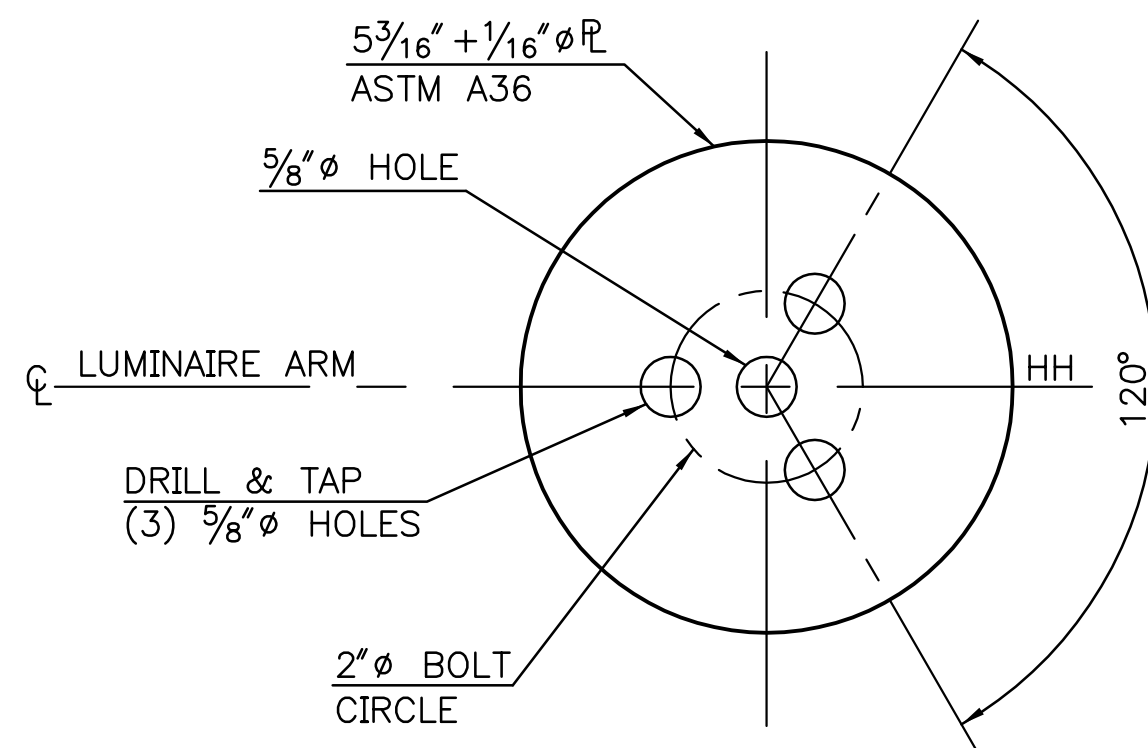
CITY OF SEATTLE	
CITY LIGHT DEPARTMENT	
SIGNATURE	DATE
DR : DJM	02/14/2005
CK :	
DSGN :	
CK :	
APP :	

CHIEF SEATTLE  
ORNAMENTAL POLE  
DETAILS

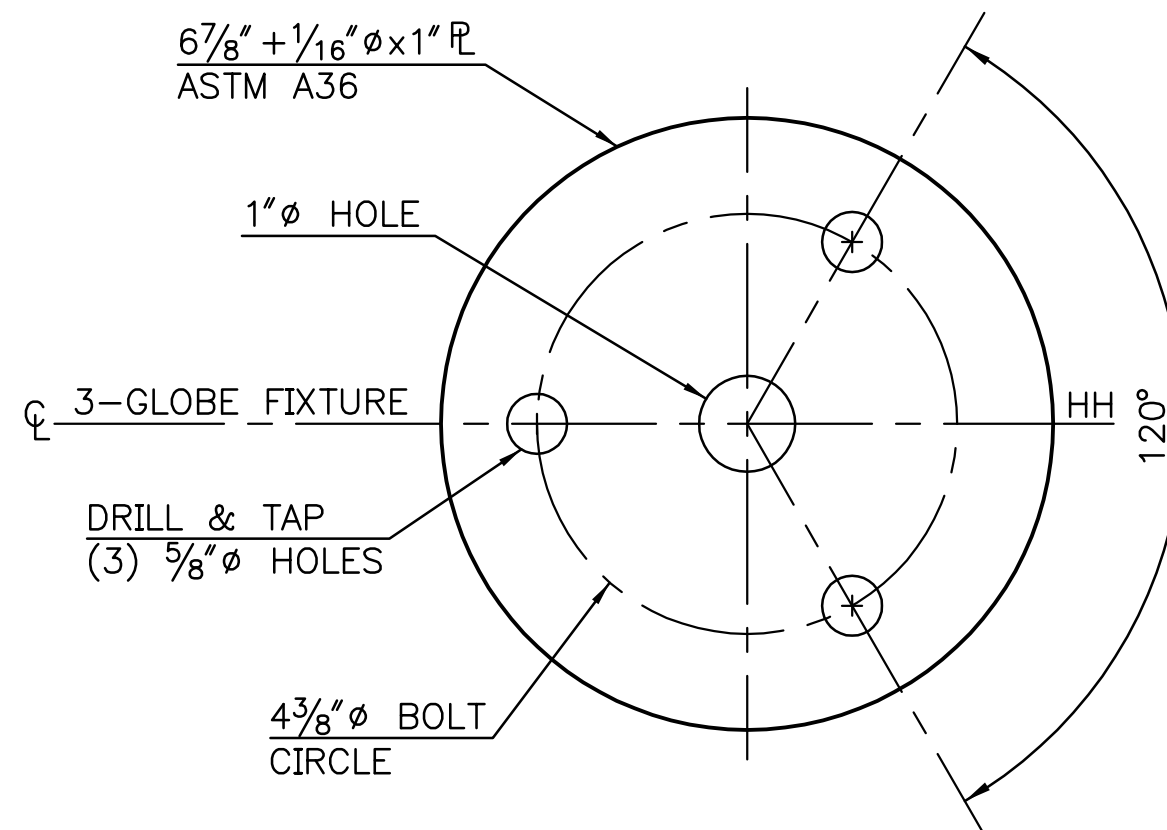
SHEET 1 OF 2	
CLASS.	
DRAWING NO. D-41035	
SCALE AS NOTED	REV. NO. 0



HEAD BLOCK WELDING DETAIL



HEAD BLOCK  
FOR ALADDIN ARM FIXTURES



HEAD BLOCK  
FOR 3-GLOBE FIXTURES

## NOTE

WHEN MOUNTING THE HEAD BLOCK ON THE TOP OF THE POLE, ONE OF THE THREE BOLT HOLES IN THE HEAD BLOCK SHALL BE IN LINE WITH THE ANCHOR BOLT HOLE (IN THE BASE) THAT IS OPPOSITE THE HANDHOLE.

## PAINTING

ALL GALVANIZED EXTERIOR SURFACES VISUALLY EXPOSED SHALL BE COATED WITH A TRIGLYCIDYL ISOCYANURATE (TGIC) POLYESTER POWDER TO A MINIMUM DRY FILM THICKNESS (DFT) OF 4.0 MILS. PRIOR TO APPLICATION, THE SURFACES TO BE POWDER COATED ARE MECHANICALLY ETCHED BY BRUSH BLASTING PER SSPC-SP7 AND THE ZINC COATED SUBSTRATE PREHEATED TO 450°F FOR A MINIMUM OF ONE (1) HOUR IN A GAS-FIRED CONVECTION OVEN. THE COATING IS ELECTROSTATICALLY APPLIED AND CURED BY ELEVATING THE ZINC-COATED SUBSTRATE TEMPERATURE TO A MINIMUM OF 400°F IN A GAS-FIRED CONVECTION OVEN.

## GALVANIZING

BEFORE GALVANIZING, ALL SHARP EDGES ON WELDS AND CUT-INS INSIDE THE POLE SHAFT, MAST ARM AND LUMINAIRE ARMS SHALL BE REMOVED OR FILED SMOOTH TO PREVENT DAMAGE TO THE WIRES IN THE POLE.

STRUCTURAL MATERIAL SHALL BE ZINC-COATED BY HOT-DIP PROCESS IN ACCORDANCE WITH ASTM A 123 AND THE FINAL COATING SHALL MEASURE 0.003 INCHES OR MORE IN THICKNESS AS DETERMINED BY A MAGNETIC THICKNESS GAUGE. HARDWARE AND APPURTENANCES SHALL BE COATED IN ACCORDANCE WITH ASTM A 153. THREADS SHALL BE RE-CUT AFTER GALVANIZING WITHOUT EXPOSING BASE METAL. GALVANIZING CERTIFICATION OF COMPLIANCE WITH THE APPLICABLE ASTM STANDARDS SIGNED BY AN ASTM ACCREDITED INDEPENDENT TESTING LABORATORY SHALL BE SUBMITTED TO THE ENGINEER BEFORE SHIPMENT.

THE FINISHED POLE SHALL BE STRAIGHT AND FREE FROM INJURIOUS DEFECTS. POLES DISTORTED BY THE GALVANIZING PROCESS SHALL BE STRAIGHTENED WITHOUT DAMAGE TO THE GALVANIZING COATING. THE FINISH COATING SHALL BE SMOOTH AND FREE OF DROSS. AFTER GALVANIZING, THE INTERIOR OF THE POLE AND ARMS SHALL BE FREE FROM SHARP EDGES TO PREVENT DAMAGE TO WIRING.

REVISIONS	CITY OF SEATTLE		CITY LIGHT DEPARTMENT		SHEET 2 OF 2	
	DATE		DATE		CLASS.	
REV	DR	CK	W.O.#	DESCRIPTION	DRAWING NO.	
0					D-41035	
					SCALE	REV. NO.
					AS NOTED	0

SIGNATURE		DATE	
DR : DJM		02/15/2005	
CK :			
DSGN :			
CK :			
APP :			

CHIEF SEATTLE ORNAMENTAL POLE DETAILS	
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## Streetlight Poles

### Fiberglass Poles

**Description:** Supplied with an ornamental base cover in Thermal Red. Used in conjunction with stock number 572660, K56 Tudor luminaire in Thermal Red. Installed onto a 4-bolt, 9-in bolt circle streetlight pole foundation, Stock No. 568025.

Shall be designed with a minimum safety factor of 2:1 and have no more than a 10% deflection at full wind loading.

**Application:** For use in the Chinatown-International District (CID), designated an historic district by the City of Seattle.

**Matl. Std.:** 5760.13

**Stock Unit:** EA

Stock No.	Mounting Height	Length	Bolt Circle	Bolts	Top Diameter	Color or Finish	Notes
574030	12 ft	11 ft-6 in	9 in	4	3 in	Pole: Gray Base: Thermal Red	International District

### Concrete Poles

**Description:** Installed in designated locations. Contact Streetlight Engineering for details.

In 2013, Stock No. 574007 (22-ft gray pole) was replaced by 574004.

**Application:** Used to support pedestrian streetlight luminaires with a minimum diameter opening of 3-1/2 inches. Direct-buried in the ground.

**Matl. Std.:** 5758.11

**Stock Unit:** EA

Stock No.	Mounting Height	Length	Top Diameter	Color	Finish
574003	16 ft-6 in	20 ft	2-7/8 in	Green	Natural sand blasted
574004	20 ft	23 ft-7 in	2-7/8 in	Gray	Natural sand blasted
574010	16 ft-6 in	20 ft	2-7/8 in	White	Polished terrazzo

### Steel Pole, Tapered, Standard

**Application:** Installed **only** on Lake Washington Boulevard (Arboretum). To be used with streetlight bracket arm, Stock No. 013465 and 80-watt LED Domus luminaire, Stock No. 013526.

**Matl. Std.:** 5683.01

**Stock Unit:** EA

Stock No.	Length	Color
013464	21.5 ft	Black, textured

### Steel Pole, Chief Seattle Ornamental

**Description:** Galvanized and powder-coated fluted steel. Installed with either a 6-ft Aladdin arm, Stock No. 012771 or an 8-ft Aladdin arm, Stock No. 013536.

**Application:** Installed **only** in Seattle's Central Business District.

**Matl. Std.:** None

**Stock Unit:** EA

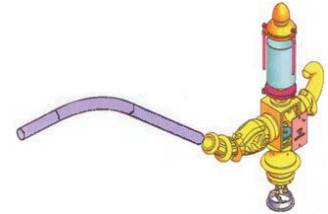
Stock No.	Length	Drawing No.	Application
569518	18 ft	SCL Drawing D-41035 rev. 0	For use with 3-globe fixtures
569530	26 ft	SCL Drawing D-41035 rev. 0	For use with Aladdin arm assembly
569531	31 ft	SCL Drawing D-41035 rev. 0	For use with Aladdin arm assembly (used on Alaskan Way)

## Streetlight Equipment for Historical Districts

### Aladdin Arm Components and Assembly

**Description:** Cast aluminum, powder coated, Aladdin decorative arm components and complete assembly. For use with Chief Seattle, Ornamental, steel, fluted poles (Stock Nos. 569530 and 569531) and Aladdin fixtures.

**Matl. Std.:** None  
**Stock Unit:** EA



Stock No.	Description	Valmont Industries Catalog No.
012771	Complete 6-ft arm assembly	7200-Aladdin-FM-6-Foot
013536	Complete 8-ft arm assembly	7200-Aladdin-FM-8-Foot

### Cast Aluminum Streetlight Base and Collar Assemblies

**Description:** These cast aluminum base and collar assemblies are also known as historic, ornamental, or Chief Seattle bases. Bases are used to support and decorate streetlight poles in City-designated historic areas and City Light-designated streetlight districts, including the International District, Westlake, and the 5<sup>th</sup> Avenue central business district.

Casting patterns are the property of Seattle City Light. See Stock Catalog page 57-2 for the fluted steel poles used with Aladdin fixtures.

**Matl. Std.:** 5680.33

**Stock Unit:** EA

Stock No.	Description
568031	Base assembly with access door
568033	Collar assembly, 10-inch diameter
568039	Collar assembly, 12-inch diameter
568114	Access door (if ordered separately)



### Cast Bronze Streetlight Base and Collar Assemblies

**Description:** These cast bronze base and collar assemblies are also known as historic, ornamental, or Chief Seattle bases. Cast bronze versions are used to support and decorate streetlight poles in the City Light-designated streetlight district of Pioneer Square.

Casting patterns are the property of Seattle City Light. See Stock Catalog page 57-2 for the fluted steel poles used with Aladdin fixtures.

**Matl. Std.:** 5680.44

**Stock Unit:** EA

Stock No.	Description
568030	Base assembly with access door
568032	Collar assembly, 10-inch diameter
012474	Collar assembly, 12-inch diameter
568116	Access door (ordered separately)



### Chief Seattle Streetlight Base Access Door Replacement

**Description:** Railroad green steel Chief Seattle base access door replacement. Used to replace missing access doors from cast aluminum or bronze Chief Seattle streetlight bases.

**Matl. Std.:** 5680.51

**Stock Unit:** EA

Stock No.	Description
014373	Chief Seattle base access door replacement.



## STREETLIGHT EQUIPMENT FOR HISTORICAL DISTRICTS GLOBE FIXTURES

### LUMINAIRES, Single Globe

Stock Unit: EA



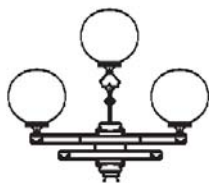
Stock No.	Dia-meter Inches	Type	Approved Manufacturer
012164	18	HPS	King Luminaire KG18-LAC-(etched)-III-70(MOG)-HPS-120MT-K4
012165	20	HPS	King Luminaire KG20-LAC-(etched)-III-70(MOG)-HPS-120MT-K2/K4
012664	22	induction	per SCL Matl. Std. 5724.00

### FIXTURE, 3-Ball, Globe

**Description:** Street light fixture. Seattle City Light owns the aluminum casting patterns. Globes are not included.

**Application:** Pioneer Square and other historical districts. Hot dip galvanized compression plate is for adapting fixture to a fluted steel pole.

**Stock Unit:** EA



572900



572902

Stock No.	Description	Dimensions	SCL Material Standard
572900	fixture	57-1/2" wide, 43-1/2" tall, 17-1/2"-thick	none
572902	plate, compression	Shop made, 3/16" thick	5721.0

### WESTLAKE PEDESTRIAN FIXTURE

**Description:** Street light base and pole. Globes, brackets and saucers are not included. Complete street light assembly requires two brackets, two saucers and two 18-in, 70W HPS globe luminaires, Stock No. 012164. Seattle City Light owns the casting patterns. Assembly is welded and includes base and pole only. Two saucers are fastened on as shown in illustration. Brackets and saucers may be used on other poles.

**Application:** Westlake and other historical districts. Mounting height is 12'-3".

**SCL Matl. Std.:** none

**Stock Unit:** EA



573700

Stock No.	Item
573700	complete welded assembly (minus globes, brackets and saucers)
573703	bracket only
573705	saucer only

### 5TH AVENUE PEDESTRIAN FIXTURE

**Description:** Street light base, pole, and capital. Globe is not included. Complete street light assembly requires one 20-inch, 70W HPS globe luminaire, Stock No. 012165. Seattle City Light owns the casting patterns. Assembly is welded and includes base, pole, and capital as shown in illustration.

**Application:** 5th Avenue and other historical districts. Mounting height is 12'.

**SCL Matl. Std.:** None

**Stock Unit:** EA



573720

Stock No.	Item
573720	complete welded assembly (minus globe)